

## Product Specification

Product Name: L-Valine \*copoeia

(2S)-2-amino-3-methylbutanoic acid

Item Nr.: 1918                      MW: 117.15 g/mol                      C5H11NO2  
 CAS Nr.: 72-18-4                      E.C.Nr.:                      EINECS: 200-773-6

Parameter	Method	Specification	Unit
Appearance	visual	white to almost white crystalline powder	
Solubility	2.5% in H2O	soluble	
Clarity of solution	Nephelometry	0	NTU
Coloration of sol.	Gardner	1	
Assay	Titration	98.5 - 101.5	%
pH	5% in H2O	5.5 - 7.0	
Loss on drying		≤ 0.30	%
Optical rotation	[α] <sub>D</sub> 20 1%, 6M HCl	+26.6 - +28.8	°
Ninhydrin-positive substances	TLC silica gel plate	≤ 2.0	%
Heavy metals		≤ 15	ppm
Iron (Fe)		≤ 30	ppm
Chlorides		< 500	ppm
Sulfated ash		≤ 0.10	%
Sulfates (SO <sub>4</sub> )		< 300	ppm

Storage: Keep well closed at room temperature in a dark and dry place.

For professional use only. Not intended for pharmaceutical use. We do not warrant suitability for any particular application. Consult Safety Data Sheet.

Version/Latest update: 02/13.04.2019